INTRODUCTION
The SIP SonNet-Trend interface is one of a range of innovative Trend interface products available for various applications and protocols. They have been developed to help reduce engineering time and cost, and to meet the demand for more information and better energy control.

These products, used in conjunction with a Trend BeMS, can help ensure a building complies with latest Part L2 Building regulations.

APPLICATION
The SIP SonNet-Trend product range has been specifically designed to easily interface between the Sontay SonNet Wireless Receiver, and a Trend BeMS (Building energy Management System).

DESIGN AND FUNCTION
This product exposes information from SonNet ‘End devices’ via its connection to a single SonNet RF-RXS wireless receiver. Selected data, e.g. Amps, Voltage or Temperature, from battery or permanently powered ‘end devices’ can be retrieved, logged (‘Map points’ page), and presented (‘VIQ Pages’) allowing building managers prevent outages, optimise the energy distribution and maintain building systems before any serious problem occurs.

SIP SonNet-Trend Interface Range

Features
- VIQ software
- DHCP
- Hostname
- Communications failure
- Specifically designed web pages for
  - IP network communications configuration
  - Wireless device and point mapping configuration
  - VIQ OS, module, alarm destination and security configuration
  - VIQ calculator
- Direct connection to Trend controllers

SonNet
- 25/50 Device limit variants
  - Max. 20 points from each wireless device
  - Mapping 1 wireless device per VIQ OS on the local Trend LAN
  - Mapping to OS on remote Trend LAN

VIQ
- Provides connection to Trend IQ3 network
- Trend compatible modules per OS
  - 100 Sensors (99 support plots - max. 1024 plots per unit @ 1000 values per plot)
  - 100 Digital Inputs
  - 100 Knobs
  - 100 Switches
- Max. 1000 Calculations per unit, e.g. periodic energy usage
- Max. 250 DataTo/DataFrom comms (as per IQ3XNC)

Each SIP includes vIQ (Virtual IQ) software that allows each device to
- appear as a Trend IQ3 controller on the Trend network,
- monitor standard or IP alarm conditions.

SIMPLIFIED BLOCK DIAGRAM

Note Refer to Quick Start for wiring details.
SPECIFICATION

Dimensions
78W (102W inc. brackets) x 108H x 32D mm
330g (410g shipped) per unit including DIN Rail clips

Default Setup Parameters
IP address - 192.168.1.227 (255.255.255.0)

Power Input
24VDC ±15V regulated

Power Consumption
300mA@12VDC, 150mA@24VDC

Storage Temperature
-20 to 80°C (-4 to 176°F), 0 to 90% Relative Humidity

Operating Temperature
0 to 70°C (32 to 158°F), 0 to 90% Relative Humidity

Connection Type
1 x 10/100Mbps for TCP/IP
1 x RS485, RS232 (RTS/CTS handshaking) or RS422

ModBus RTU Connection Type
DIP switch - RS485 (all OFF), RS232 (all ON) and RS422 (S1:p1 OFF, S1:p2 ON)

INSTALLATION
DIN rail mounting (TS35) using mounting kit provided.
2.5m Cat 5E cable supplied is used to connect this unit to a terminal block in the enclosure or the SonNet RF-RXS receiver.

CONFIGURATION
Specifically designed web pages.

Note
Supports maximum of 250 DataTo/DataFrom comms (as per IQ3XNC) via the Trend network, but may need to be reduced depending on existing network traffic.

PRODUCT CODES

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>SIP/SON/D/25VIQ</td>
<td>Max. 20 points from up to 25 SonNet ‘End devices’ (mapped as required using any combination of sensors, digital inputs, knobs and switches) shown on Trend network.</td>
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<tr>
<td>SIP/SON/D/50VIQ</td>
<td>Max. 20 points from up to 50 SonNet ‘End devices’ (mapped as required using any combination of sensors, digital inputs, knobs and switches) shown on Trend network.</td>
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<tr>
<td>SYN/ESW8</td>
<td>Ethernet switch with 8 x 10/100BaseT(X) ports</td>
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<tr>
<td>PSU/24VDC/1A</td>
<td>24V 1A DC Power Supply</td>
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</tbody>
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REGULATIONS

CE Class A, FCC Class A, REACH, WEEE and RoHS.


PRODUCT INFORMATION
With a comprehensive range of interface products for BACnet, M-Bus, ModBus, SNMP and Trend protocols we can help you easily link meter, sub-meters and plant to BeMS systems with energy management and monitoring functionality, and virtual metering.

Download brochures and datasheets from our website. Alternatively, contact us for more information or to request a quote.